

09/662,613

SYLC/09

In the Claims

Claims 1-65 have been canceled.

1
66. (Previously Added) A wireless radio communications system, such as a cellular telephone system, that includes a plurality of land based elements, one or more sources of data storage and at least one MTISO, and at least one mobile telephone unit, comprising:

5 A) locating means in at least one of a mobile unit which can operate from a non-fixed location and a radio communications system for determining the exact geographic location of the mobile unit;

10 B) management means for making data management decisions based on the exact geographic location of the mobile unit, said management means including means for storing geographic data for each element and for making a comparison between the exact geographic location of the mobile unit and the land based data stored in said management means;

15 C) means in said management means for making a data management decision based on said comparison; and

20 D) means for routing a call from the mobile unit to an element selected by said mobile unit based on the exact geographic location of the mobile unit.

09/662,613

SYLC/09

²
~~67~~. (Presently Amended) The wireless radio communication system defined in claim ~~66~~ ⁶⁵ further including means for billing the mobile unit for the call based on a rate associated with the call to the selected element.

³
~~68~~. (Previously Added) The wireless radio communication system defined in claim ~~66~~ further including means for billing the mobile unit for the call regardless of the cell site location.

⁴
~~69~~. (Previously Added) A method for making management decisions in a wireless radio communications system, such as a cellular telephone system, comprising:

- C1 Cont.
- 5 A) determining the exact geographic location of a mobile unit in a wireless radio communications system;
- B) storing the exact geographic location of each of a plurality of elements of the wireless radio communication system;
- C) at the mobile unit, selecting a desired service;
- 10 D) in the MTSO, comparing the exact geographic location of the mobile unit to the geographic locations of the service elements in the wireless radio communication system which provide the desired service and selecting one of the service elements

09/662,613

SYLC/09

based on the comparison between the exact geographic location of the mobile unit and the selected service element; and,

- 15 E) routing the call from the mobile unit to the selected service element.

5
4
69. (Presently Amended) The method defined in claim 68 further including a step of transmitting the exact geographic location of the mobile unit to an MTSO of the wireless radio communication system.

6
4
70. (Presently Amended) The method defined in claim 68 further including billing the mobile unit for the call to the selected service element at a rate associated with the call from the mobile unit to the selected service element.

7
4
71. (Presently Amended) The method defined in claim 68 wherein the mobile unit is passive during the step of determining the exact geographic location of the mobile unit.

8
72. (Previously Added) The method defined in claim 70 wherein said billing is made regardless of the location of a cell site.

09/662,613

SYLC/09

9
74. (Previously Added) A wireless radio communications system, such as a cellular telephone system, that includes a plurality of land based elements, one or more sources of data storage and at least one MTSO, and at least one mobile telephone unit, comprising:

A) locating means in at least one of a mobile unit which can operate from a non-fixed location and a radio communications system for determining the exact geographic location of the mobile unit;

10 B) means for requesting land based services for said mobile unit;

Cal Cont.
15 C) management means for making data management decisions based on the exact geographic location of the mobile unit, said management means including means for storing geographic data for each element and for making a comparison between the exact geographic location of the mobile unit and land based data;

D) means in said management means for making a data management decision based on said comparison;

20 E) means for identifying an element based on the exact geographic location of the mobile unit; and

F) means for automatically routing information based services requested for said mobile unit.

09/662,613

SYLC/09

10
7~~5~~. (New) A cellular communications system comprising:

a cellular communication network comprising a plurality of cell sites and a plurality of mobile units, for radio frequency communication between said cell sites and mobile units, at least one of said cell sites receiving an identification of a specific mobile unit, said cellular communication network communicating with said specific mobile unit via a cell site chosen based upon signal strength,

10
a positioning system obtaining a position for said specific mobile unit identifying an exact geographic location of the specific mobile unit,

a data storage system for recording said exact geographic location and specific mobile unit identification for use in subsequent services.

11
10 7~~6~~. (New) The cellular communications system of claim 7~~5~~ wherein said specific mobile unit transmits a position signal to said receiver.

12
10 7~~7~~. (New) The cellular communications system of claim 7~~6~~ wherein said specific mobile unit derives said position through the use of radio frequency positioning signals.

09/662,613

SYLC/09

12 13
78. (New) The cellular communications system of claim
77 wherein said specific mobile unit derives said position
through the use of a global positioning satellite system.

12 14
79. (New) The cellular communications system of claim
77 wherein said specific mobile unit comprises a GPS receiver
connected to logic circuitry in said specific mobile unit.

14 15
80. (New) The cellular communications system of claim
79 wherein said specific mobile unit includes a duplexer.

15 16
81. (New) The cellular communications system of claim
80 wherein said specific mobile unit includes a GPS receiver
located between said duplexer and said logic circuitry.

10 17
82. (New) The cellular communications system of claim
75 wherein said cellular communication network compares said
exact geographic location to geographic locations of cell sites
in the cellular communications network.

17 18
83. (New) The cellular communications system of claim
82 wherein said cellular communications network selects a chosen
cell site for use by said specific mobile unit based on said

09/662,613

SYLC/09

comparison of said exact geographic location to geographic locations of cell sites, and establishes communication between said specific mobile unit and said chosen cell site based on the exact geographic location of the specific mobile unit.

19
84. (New) The cellular communications system of claim 17 wherein said cellular communication network determines the geographic location of a cell site using a look-up table.

20
85. (New) The cellular communications system of claim 10 wherein said positioning system receives said exact geographic location data from voice and data communication signals received by said cell sites.

21
86. (New) The cellular communications system of claim 10 wherein said data storage system makes said exact geographic location information accessible for emergency services provisioning.

22
87. (New) The cellular communications system of claim 10 wherein said data storage system makes said exact geographic location information available for one or more of rate, message unit, tax, billing or location services provisioning.

09/662,613

SYLC/09

23
88. (New) The cellular communications of claim 75
wherein said data storage system makes said exact geographic
location information accessible to provide proper services for
said location.

24
89. (New) A cellular data storage system for use with a
communications system that includes one or more cell sites, said
data storage system:

5
obtaining a mobile unit identification from a cellular
communication network, said network comprising a plurality of
cell sites in radio frequency communication with a plurality of
mobile units, said mobile unit identification identifying a
specific mobile unit in communication with one of said cell sites
chosen by said cellular communication network based upon signal
10 strength,

obtaining a position for said specific mobile unit
identifying an exact geographic location of the specific mobile
unit,

15 recording said exact geographic location and mobile
unit identification for use in subsequent services.

09/662,613

SYLC/09

25 24
90. (New) The cellular data storage system of claim 89
wherein said mobile unit transmits a position signal to said data
storage system.

26 24
91. (New) The cellular data storage system of claim 89
wherein said position is derived by said specific mobile unit
through the use of radio frequency positioning signals.

27 26
92. (New) The cellular data storage system of claim 91
wherein said position is derived through the use of a global
positioning satellite system.

28 24
93. (New) The cellular data storage system of claim 92
forwarding said exact geographic location to said cellular
communications network for comparison to geographic locations of
cell sites in the cellular communications network.

29 28
94. (New) The cellular data storage system of claim 93
storing a look-up table relating a cell site to its geographic
location.

09/662,613

SYLC/09

30
25. (New) The cellular data storage system of claim 24
receiving said exact geographic location data from voice and data
communication signals received by said cell sites.

31
26. (New) The cellular data storage system of claim 24
making said exact geographic location information accessible for
emergency services provisioning.

32
27. (New) The cellular data storage system of claim 24
making said exact geographic location information accessible for
one or more of rate, message unit, tax, billing or location
services provisioning.

33
28. (New) The cellular data storage system of claim 24
making said exact geographic location information accessible to
provide proper services for said location.

34
29. (New) A cellular communications system comprising:
a cellular communication network comprising a plurality
of cell sites and a plurality of mobile units, for radio
frequency communication between said cell sites and mobile units,
at least one of said cell sites receiving an identification of a
specific mobile unit, said cellular communication network

09/662,613

SYLC/09

communicating with said specific mobile unit via a cell site
chosen without reference to exact geographic location of said
specific mobile unit,

10 a positioning system obtaining a position for said
specific mobile unit identifying an exact geographic location of
the specific mobile unit,

a data storage system for recording said exact
geographic location and specific mobile unit identification for
15 use in subsequent services.

cl
cont
³⁵
~~100.~~ (New) A cellular data storage system for use with
a communications system that includes one or more cell sites,
said data storage system:

obtaining a mobile unit identification from a cellular
5 communication network, said network comprising a plurality of
cell sites in radio frequency communication with a plurality of
mobile units, said mobile unit identification identifying a
specific mobile unit in communication with one of said cell sites
chosen by said cellular communication network without reference
10 to exact geographic location of said specific mobile unit,

obtaining a position for said specific mobile unit
identifying an exact geographic location of the specific mobile
unit,

09/662,613

SYLC/09

recording said exact geographic location and mobile
15 unit identification for use in subsequent services.

36

~~101.~~ (New) A method of operating a cellular
communication network comprising a plurality of cell sites and a
plurality of mobile units, for radio frequency communication
between said cell sites and mobile units, comprising:

5 receiving, at at least one of said cell sites, an
identification of a specific mobile unit,

communicating with said specific mobile unit via a cell
site chosen without reference to exact geographic location of
said specific mobile unit,

10 obtaining a position for said specific mobile unit
identifying an exact geographic location of the specific mobile
unit, and

recording said exact geographic location and specific
mobile unit identification for use in subsequent services.

37

~~102.~~ (New) A method of storing data for use with a
communications system that includes one or more cell sites,
comprising:

obtaining a mobile unit identification from a cellular
5 communication network, said network comprising a plurality of

09/662,613

SYLC/09

cell sites in radio frequency communication with a plurality of mobile units, said mobile unit identification identifying a specific mobile unit in communication with one of said cell sites chosen without reference to exact geographic location of said specific mobile unit,

obtaining a position for said specific mobile unit identifying an exact geographic location of the specific mobile unit, and

recording said exact geographic location and mobile unit identification for use in subsequent services.